

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

TABLE OF CONTENTS

PROBLEM NUMBER	DESCRIPTION	PAGE NUMBER
<u>INDEXES</u>		
	EQUIPMENT INDEX	ii
	ACTION INDEX	iii
	ORIGINATORS INDEX	v
	DUE DATE SUMMARY	vii
 PROBLEMS		
<u>12034</u>	MISSILE FAILED TO FIRE.....	1
<u>15884</u>	MISSILE FAILED TO TRACK.....	3
<u>15996</u>	MISSILE FAILED TO LAUNCH.....	13
<u>16174</u>	WATER/HUMIDITY EXPOSURE/INTRUSION.....	17
<u>16510</u>	MISSILE DID NOT CAPTURE AND PREMATURE DETONATION OCCURRED.....	19
<u>16846</u>	MISSILE DETONATION OCCURRED SHORT OF TARGET.....	23
<u>16870</u>	DAMAGED MEMBRANE DUE TO ROCKET LAUNCHED ON SAME SIDE AS TOW	25
	MISSILE.....	
<u>16876</u>	MISSILE FAILED TO CAPTURE WITH AWC 340 INSTALLED.....	28

NOTE: OPEN problems denoted by asterisk (*) following problem number.

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 12034

CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	GUIDED MISSILE, TOW	11500160-1	1410	01-264-9124	4W73
	GUIDED MISSILE, TOW	13100908	1410	01-137-9976	PB96
	(PRACTICE)				

EI CNTRL NO:

PROB BRIEF : MISSILE FAILED TO FIRE

PROBLEM : Missile failed to fire during launch attempt.
DESCRIPTION

PREVENTIVE : All assets except limited quantity for training are reclassified to
ACTION Condition Code "N". Entire stockpile to be replaced with TOW-2A.

CORRECTIVE : Dispose.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	HMLA-367	CODR	M09079-01-0009	03JUL01	CLOSED
	MAG-42	EMR	M67251-93-0039	22JUN93	CLOSED *
	HMA-269	EMR/EIR	M08998-88-0003	14NOV88	CLOSED *
	HML-167	PQDR I	M09898-88-0008	27SEP88	CLOSED *
	HML-167	EMR	M09898-88-0007	30AUG88	CLOSED *
	MAWTS-1	EMR/QDR	M55167-88-0014	04MAY88	CLOSED *
	MAWTS-1	EMR/QDR	M55167-88-0015	04MAY88	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : HMLA-367 CODR M09079-01-0009 03JUL01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	S/N: 482923			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

HMLA-367 reported that aircraft release and control checks and missile loading was performed with no discrepancies noted. Aircraft prelaunch constraints were met and gunner had good ready and attack flags in telescopic sight unit prior to attempting missile launch. The pilot attempted to fire the missile but it would not launch. The missile firing was attempted on two separate known good aircraft with the same problem.

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 12034

(Continued)

ACTION TAKEN:

10JUL01: NAWC Pt. Mugu acknowledged receipt of problem. It was requested that missile be put in condition code "F" and retain on board until NAWC Pt. Mugu directs further disposition.

13JUL01: NAWC Pt. Mugu directed further disposition via email from NAWC Pt. Mugu to HMLA-367 to have the missile issued to the local EOD people for training. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	:	NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 16JUL01

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
	:	HMLA-367 MESSAGE 031824ZJUL01	PROBLEM REPORT
	:	NAWC PT MUGU/311000E MESSAGE 100129ZJUL01	INTERIM RESPONSE
	:	NAWC PT MUGU/311000E EMAIL 13JUL01	REPLY/CLOSING

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	GUIDED MISSILE, TOW	11500160-1	1410	01-264-9124	4W73
	TOW MISSILE	13426588	1410	01-379-8260	PU16

EI CNTRL NO:

PROB BRIEF : MISSILE FAILED TO TRACK

PROBLEM : Missile fired but failed to acquire lock-on.
DESCRIPTION

PREVENTIVE : The problem is well known and has been under investigation. Recent monitored flight tests with the manufacturer, the Aircraft Cognizant Field Activity and Naval Air Warfare Center Technical Representatives in attendance have been concluded. Preliminary indications are that the reported problems with the TOW 2a missile anomalies are aircraft induced and a fix is being studied and recommended for incorporation to preclude future missile firing problems.

CORRECTIVE : Investigation has been completed. The Aircraft Cognizant Field Activity, the missile manufacturer and the Naval Air Warfare Center Technical Representatives have determined that the reported problem is aircraft induced and is not missile hardware or software failures. A fix to the aircraft has been identified and verified for incorporation to preclude this particular missile firing problem. Corrective actions include modification of the programmer card on the missile control amplifier and adding a buffer on signals from the processor electronics box.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	MAWTS-1	CODR	M55167-01-0011	04APR01	CLOSED
	HMLA-167	CODR	M09898-01-0025	30JAN01	CLOSED
	HMLA-267	CODR	M09159-00-0035	16NOV00	CLOSED
	HMLA-775	CODR	M55252-00-0011	02NOV00	CLOSED
	MAWTS-1	CODR	M55167-00-0034	28OCT00	CLOSED
	HMLA-367	CODR	M09079-00-0022	19OCT00	CLOSED
	HMLA-167	CODR	M09898-00-0088	21SEP00	CLOSED
	HMLA-167	CODR	M09898-00-0086	11SEP00	CLOSED
	HMLA-367	CODR	M09079-00-0015	07SEP00	CLOSED
	HMM-262	CODR	M09442-00-0017	25AUG00	CLOSED
	HMLA-367	CODR	M09079-00-0014	24AUG00	CLOSED
	HMLA-269	CODR	M08998-00-0049	07AUG00	CLOSED *
	HMLA-369	CODR	M09361-00-0014	07AUG00	CLOSED *
	HMLA-269	CODR	M08998-00-0044	31JUL00	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

(Continued)

SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
HMLA-367	CODR	M09079-00-0009	21JUN00	CLOSED *
HMM-161	CODR	M09440-00-0003	02JUN00	CLOSED *
HMLA-267	CODR	M09159-00-0010	03MAY00	CLOSED *
HMLA-267	CODR	M09159-00-0011	03MAY00	CLOSED *
HMLA-169	CODR/EIR	M09202-00-0008	28APR00	CLOSED *
HMLA-267	CODR	M09159-00-0007	06MAR00	CLOSED *
HMLA-167	CODR	M09898-00-0062	21FEB00	CLOSED *
HMLA-369	CODR	M09361-99-0029	01DEC99	CLOSED *
HMLA-369	CODR	M09361-99-0030	01DEC99	CLOSED *
HMLA-369	CODR	M09361-99-0031	01DEC99	CLOSED *
HMLA-369	CODR	M09361-99-0032	01DEC99	CLOSED *
HMLA-167	CODR	M09898-99-0054	04OCT99	CLOSED *
HMLA-167	CODR	M09898-99-0055	04OCT99	CLOSED *
HMM-263	CODR	M09445-99-0021	04OCT99	CLOSED *
HMLA-367	CODR	M09079-99-0025	21SEP99	CLOSED *
HMLA-269	CODR	M08998-99-0056	09SEP99	CLOSED *
HMLA-269	CODR	M08998-99-0054	06SEP99	CLOSED *
HMLA-269	CODR	M08998-99-0047	31AUG99	CLOSED *
HMLA-167	CODR	M09898-99-0044	06AUG99	CLOSED *
HMLA-267	CODR	M09159-99-0015	29JUL99	CLOSED *
HMLA-775	CODR	M55252-99-0011	08JUL99	CLOSED *
HMLA-775	CODR	M55252-99-0012	08JUL99	CLOSED *
HMLA-367	CODR	M09079-99-0006	20MAY99	CLOSED *
MAWTS-1	CODR	M55167-99-0013	12MAY99	CLOSED *
HMM-162	CODR	M09492-98-0023	16OCT98	CLOSED *
HMLA-269	CODR	M08998-98-0005	21AUG98	CLOSED *
HMLA-775	CODR	M55252-98-0013	09JUL98	CLOSED *
HMLA-775	CODR	M55252-98-0012	08JUL98	CLOSED *
HMLA-775	CODR	M55252-98-0011	07JUL98	CLOSED *
HMLA-775	CODR	M55252-98-0010	06JUL98	CLOSED *
HMLA-167	CODR	M09898-98-0004	05MAR98	CLOSED *
HMLA-775	EMR	M55252-98-0003	10FEB98	CLOSED *
HMLA-167	CODR	M09898-97-0028	01OCT97	CLOSED *
HMLA-167	CODR	M09898-97-0027	25SEP97	CLOSED *
HMLA-167	CODR	M09898-97-0026	23SEP97	CLOSED *
HMLA-269	CODR	M08998-97-0003A	30AUG97	CLOSED *
HMLA-169	CODR/EMR	M09202-94-1002	12DEC94	CLOSED *

*** ACTION REPORTED IN PREVIOUS PUBLICATION**

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 15884

(Continued)

ACTION : MAWTS-1 CODR M55167-01-0011 04APR01 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC
S/N: 485255
FAILED PART: 13426588 1410 01-379-8260 PU16
NOMEN: TOW MISSILE

DESCRIPTION:

MAWTS-1 reported missile failed to capture.

ACTION TAKEN:

09APR01: NAWC Pt. Mugu reported this was an aircraft problem caused by a broken coupling between tally rack and tally rack resolver. This problem has been entered for tracking purposes only. This is closing action.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS
SUMMARY NAWC PT MUGU/311000E REVIEW DISCREPANCY COMPLETE 10APR01

REFERENCES : IDENTIFICATION REFERENCE BRIEF
MAWTS-1 MESSAGE 041000ZAPR01 PROBLEM REPORT
NAWC PT MUGU/311000E MESSAGE REPLY/CLOSING
090329ZAPR01

ACTION : HMLA-167 CODR M09898-01-0025 30JAN01 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC
13426588 1410 01-379-8260 PU16
NOMEN: TOW MISSILE
S/N: 485934
FAILED PART: 13426588 1410 01-379-8260 PU16
NOMEN: TOW MISSILE

DESCRIPTION:

HMLA 167 reported that missile came off launcher and did not capture. Missile flew right and down impacting the deck approximately 400 meters from aircraft.

ACTION TAKEN:

12FEB01: NAWC Pt. Mugu received the firing report. An analysis of the report indicated this to be an aircraft problem which was due to not having AFC-340 installed. This problem has been entered for tracking purposes only. This is closing action.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS
SUMMARY NAWC PT MUGU/311000E REVIEW DISCREPANCY COMPLETE 14FEB01

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

(Continued)

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-167 MESSAGE 301400ZJAN01	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	120229ZFEB01	

ACTION : HMLA-267 CODR M09159-00-0035 16NOV00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			
	S/N: 485578			
	LOT: HAQ95B306-402			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			
	S/N: 485578			
	LOT: HAQ95B306-402			

DESCRIPTION:

Pilot reported missile spin up time and launch sequence was normal. Missile launched from station one and after .5 seconds of flight maneuvered abruptly from left to right across nose of aircraft and descended. Missile impacted approximately 300 meters down range and 15 degrees right of launch heading. Pilot noted no post launch constraints displayed in the head up display. Copilot saw the missile in the lower left quadrant of direct view optics momentarily before it disappeared out of his field of view. Aircrew noted detonation. Post flight release and control checks revealed no discrepancies.

ACTION TAKEN:

27NOV00: NAWC Pt. Mugu reported that reason for missile malfunction is unknown at this time. Awaiting missile firing report to provide additional information as to why missile performed as reported .

07DEC00: NAWC Pt. Mugu reported that an analysis of the firing report indicated this to be an aircraft problem which was due to not having AFC-340 installed. This is closing action.

27DEC00: NAWC Pt. Mugu submitted duplicate closing response.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE 27DEC00

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-267 MESSAGE 160704ZNOV00	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	INTERIM RESPONSE
	270529ZNOV00	

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

(Continued)

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/311000E MESSAGE 070129ZDEC00	REPLY/CLOSING
	NAWC PT MUGU/311000E MESSAGE 270029ZDEC00	DUPLICATE REPLY/CLOSING

ACTION : HMLA-775 CODR M55252-00-0011 02NOV00 CLOSED

END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
	S/N: 485214			
	LOT: 1410-01-379-8260			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

MAG-46 DET reported missile spiraled to the deck with warhead detonation upon impact.

ACTION TAKEN:

06AUG01: NAWC Pt. Mugu reported an analysis of the Firing Report indicated this to be an aircraft problem which was due to not having AFC-340 installed. This problem has been entered for tracking purposes only. This is closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	NAWC PT MUGU/311000E REVIEW DISCREPANCY		COMPLETE 06AUG01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-775 MESSAGE 020800ZNOV00	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE 060229ZAUG01	REPLY/CLOSING

ACTION : MAWTS-1 CODR M55167-00-0034 28OCT00 CLOSED

END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			
	S/N: 485547			
	LOT: HAQ95B306-402			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

Pilot reported at missile launch, missile captured, flew towards target crossing telescopic sight unit field of view four times. During flight missile drifted left and right of aircraft. At approximately 2K meters from aircraft, missile began to drift left

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

(Continued)

and failed to respond to inputs. Missile continued to drift left until impact with ground approximately 600 meters left of target. Post launch bit checks and aircraft post flight electrical check were both good.

ACTION TAKEN:

28NOV00: NAWC Pt. Mugu found that analysis of deficiency and firing report indicated this to be an aircraft problem caused by the lack of AFC-340 not being installed, causing the missile not to capture completely. This problem has been entered for tracking purposes only. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 28NOV00

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		MAWTS-1 MESSAGE 280800ZOCT00	PROBLEM REPORT
		NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
		280029ZNOV00	

ACTION	:	HMLA-367	CODR	M09079-00-0022	19OCT00	CLOSED
---------------	----------	-----------------	-------------	-----------------------	----------------	---------------

	END ITEM	:	PART/DOC. NO.	FSC	NIIN	NALC
			S/N: 484238			
	FAILED PART:		13426588	1410	01-379-8260	PU16
			NOMEN: TOW MISSILE			

DESCRIPTION:

Pilot launched missile successfully. The missile appeared to capture with a time of flight of about two to four seconds then shot up and right out of the field of view of the telescopic sight unit. The missile eventually impacted with the water short and right of the target.

ACTION TAKEN:

23OCT00: NAWC Pt. Mugu reported an analysis of the firing report and deficiency are under investigation at this time to determine exact cause of malfunction. This problem has been entered for tracking purposes only. This is to remain open for the time being.

20SEP01: NAWC Pt. Mugu has determined that an investigation was not warranted at this time. The suspected problem was due to the aircraft not having AFC-340 installed. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 20SEP01

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

(Continued)

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-367 MESSAGE 191300Z OCT00	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	INTERIM RESPONSE
	230129Z OCT00	
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	200129Z SEP01	

ACTION : HMLA-167 CODR M09898-00-0088 21SEP00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: 484722			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

Pilot stated aircraft was in a stable hover at 220 feet, 2700 meters from target. Aircraft was yawed slightly left and right to get into constraints with no success. Aircraft was stabilized and constraint override button was pressed and trigger squeezed. An audible pop was heard and approximately one second later, the missile launched. The missile never entered telescopic sight unit line of sight. Missile started a gentle climb, began tumbling and impacted the water at 900 meters and detonated.

ACTION TAKEN:

25SEP00: NAWC Pt. Mugu reported preliminary indication is the missile failed to capture. This was confirmed as a result of an analysis of the firing report. This problem was entered for tracking purposes only. This is closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE 25SEP00

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-167 MESSAGE 251129Z SEP00	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	251129Z SEP00	

ACTION : HMLA-167 CODR M09898-00-0086 11SEP00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: 484787			
	LOT: HAQ95E306-402			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 15884

(Continued)

DESCRIPTION:

Ground crew discovered missile malfunction. Pilot stated good symbology at 2800 feet. Missile was launched, flooded forward looking infrared and never came back into field of view. Missile crossed line of sight to the right and dove to the water approximately 500 meters from aircraft and detonated.

ACTION TAKEN:

14SEP00: HMLA-167 submitted a duplicate problem report.

19SEP00: NAWC Pt. Mugu reported that a preliminary indication is that the missile failed to capture. After analysis of the missile firing report this was confirmed. This problem has been entered for tracking purposes only. This is closing action.

20SEP00: NAWC Pt. Mugu requests duplicate report be cancelled.

21SEP00: HMLA-167 cancelled duplicate problem report.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	:	NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 19SEP00

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
	:	HMLA-167 MESSAGE 111202ZSEP00	PROBLEM REPORT
	:	HMLA-167 MESSAGE 141215ZSEP00	DUPLICATE CODR
	:	NAWC PT MUGU/311000E MESSAGE 191129ZSEP00	REPLY/CLOSING
	:	NAWC PT MUGU/311000E MESSAGE 200229ZSEP00	REQ DUPLICATE CODR CANX
	:	HMLA-167 MESSAGE 210930ZSEP00	DUPLICATE CODR CANX

ACTION	:	HMLA-367	CODR	M09079-00-0015	07SEP00	CLOSED
--------	---	----------	------	----------------	---------	--------

END ITEM	:	PART/DOC. NO.	FSC	NIIN	NALC
	:	S/N: 483444			
	:	LOT: HAQ95B306-306			
FAILED PART:	:	13426588	1410	01-379-8260	PU16
	:	NOMEN: TOW MISSILE			

DESCRIPTION:

Pilot stated that missile launched crossing the telescopic sight unit line of site once, then began a left turn until it turned hard 90 degrees flying sideways until impacting the water about 200 meters from aircraft. Post flight weapons systems checks were performed with no discrepancies.

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15884

(Continued)

ACTION TAKEN:

19SEP00: NAWC Pt. Mugu stated that preliminary indication is that missile failed to capture. After analysis of the missile firing report this was confirmed. The problem has been entered for tracking purposes only. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 19SEP00

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		HMLA-367 MESSAGE 071300ZSEP00	PROBLEM REPORT
		NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
		191029ZSEP00	

ACTION	:	HMM-262	CODR	M09442-00-0017	25AUG00	CLOSED
---------------	----------	----------------	-------------	-----------------------	----------------	---------------

		PART/DOC. NO.	FSC	NIIN	NALC
END ITEM	:	S/N: 483442			
FAILED PART:		13426588	1410	01-379-8260	PU16
		NOMEN: TOW MISSILE			

DESCRIPTION:

Pilot reported that missile was fired and left the rail with no noted malfunctions. The missile crossed into the telescopic sight unit field of view and captured. After traveling down range approximately fifteen hundred meters, sparks from the missile were visible. The missile made a sharp turn to the left, dove approximately seventy degrees, nosed down and impacted the water.

ACTION TAKEN:

05SEP00: NAWC Pt. Mugu reported that the sharp turns may be caused by breakage of the wire, catastrophic battery or actuator fin lockup due to bottle failure which can result in appearance of sparks. This can be considered an isolated occurrence. This problem was entered for tracking purposes only. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 05SEP00

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		HMM-262 MESSAGE 250310ZAUG00	PROBLEM REPORT
		NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
		050029ZSEP00	

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 15884

(Continued)

ACTION : HMLA-367 CODR M09079-00-0014 24AUG00 CLOSED

END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
	S/N: 482976			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

Aircraft release and control checks and missile loading performed with no discrepancies noted. Aircraft prelaunch constraints were met and gunner had good ready and attack flags in telescopic sight unit prior to missile launch. Missile launched and captured crossing the field of view, then lost control flying up and then down, impacting 500 to 600 meters short of the target. Post flight weapons systems checks were performed with no discrepancies noted.

ACTION TAKEN:

05SEP00: NAWC Pt. Mugu reported missile was launched from aircraft without AFC-340 installed. From the performance described in the deficiency it appears the aircrew had a marginal capture and track of the missile. Installing the AFC-340 should help to correct this problem by giving a more solid capture and track. This problem has been entered for tracking purposes only. This is closing action.

ACTION	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 05SEP00

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	HMLA-367 MESSAGE 241300ZAUG00	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	050129ZSEP00	

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 15996

CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	GUIDED MISSILE, TOW	13060893-1	1410	01-315-1531	PV15
	TOW MISSILE	13426588	1410	01-379-8260	PU16

EI CNTRL NO:

PROB BRIEF : MISSILE FAILED TO LAUNCH

PROBLEM : Missile failed to launch.
DESCRIPTION

PREVENTIVE : None at this time.
ACTION

CORRECTIVE : There is no corrective action for this problem as all missiles under
ACTION NALC's PB91, 4W73 and PV15 currently in Condition Code "N" and NAR'd, will be demil'd upon return from the fleet.

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/311200E MESSAGE 121329ZJAN98	AWCAP CLOSURE

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	HMLA-169	CODR	M09202-01-0010	28SEP01	CLOSED
	HMLA-169	CODR	M09202-01-0011	28SEP01	CLOSED
	MAWTS-1	CODR	M55167-00-0026	20OCT00	CLOSED
	HMLA-169	CODR	M09202-00-0010	20SEP00	CLOSED
	HMM-263	CODR	M09445-00-0001	16JUL00	CLOSED *
	HMLA-169	CODR/EIR	M09202-00-0009	24MAY00	CLOSED *
	HMLA-169	CODR/EIR	M09202-00-0007	11APR00	CLOSED *
	HMLA-167	CODR	M09898-99-0002	11MAR99	CLOSED *
	HMLA-367	CODR	M09079-98-0016	30SEP98	CLOSED *
	HMM-264	CODR/EIR	M09374-98-0016	19APR98	CLOSED *
	HMM-262	CODR	M09442-98-0015	20MAR98	CLOSED *
	HMLA-367	CODR	M09079-95-0040	08AUG95	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION :	HMLA-169	CODR	M09202-01-0010	28SEP01	CLOSED
		PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :		S/N: 486945			
FAILED PART:	13426588		1410	01-379-8260	PU16
	NOMEN: TOW MISSILE				

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15996

(Continued)

DESCRIPTION:

HMLA-169 reported aircrew attempted launch with no fire. After second missile fire attempt, missile failed to launch and gave no misfire indication in cockpit. During dearm procedures ground crew noted the membrane had torn and aft mid section of missile launch tube was very warm to the touch. Missile was turned into MALS-36 ordnance awaiting disposition instructions.

ACTION TAKEN:

09OCT01: NAWC Pt. Mugu entered this problem for tracking purposes only. Request place missile in Condition Code "F" and ship to Anniston Army Depot for repair. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	05OCT01

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
		HMLA-169 MESSAGE 280224ZSEP01	PROBLEM REPORT
		NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
		090429Z OCT01	

ACTION	:	HMLA-169	CODR	M09202-01-0011	28SEP01	CLOSED
		END ITEM	:	PART/DOC. NO.	FSC	NIIN
				S/N: 486946		NALC
		FAILED PART:		13426588	1410	01-379-8260 PU16
				NOMEN: TOW MISSILE		

DESCRIPTION:

HMLA-169 aircrew attempted launch with no fire. After second missile fire attempt, missile failed to launch and gave no misfire indications in cockpit. During dearm procedures ground crew noted the membrane had torn and the aft mid section of missile launch tube was very warm to the touch. Missile turned into MALS-36 ordnance awaiting disposition instructions.

ACTION TAKEN:

09OCT01: NAWC Pt. Mugu entered this problem for tracking purposes only. Request missile be placed in Condition Code "F" and shipped to Anniston Army Depot for repair. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	05OCT01

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 15996

(Continued)

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-169 MESSAGE 280211ZSEP01	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	090429Z OCT01	

ACTION : MAWTS-1 CODR M55167-00-0026 20OCT00 CLOSED

END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
	S/N: 482592			
	LOT: HAQ95B306-305			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

Pilot reported prelaunch and cockpit indications were normal. Aircraft had good symbology and was within constraints. Attempted to fire in accordance with checklist, missile did not fire. System displayed multiple malfunctions. Post flight inspection revealed missile forward diaphragm was broken.

ACTION TAKEN:

24OCT00: NAWC Pt. Mugu requested missile be placed in condition code "F" and shipped to Anniston Army Depot for repair. This problem was entered for tracking purposes only. This is closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE 24OCT00

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	MAWTS-1 MESSAGE 201645Z OCT00	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	240429Z OCT00	

ACTION : HMLA-169 CODR M09202-00-0010 20SEP00 CLOSED

END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
	S/N: 482331			
	LOT: HAQ95B306-305			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

Gunner attempted to fire missile two times and missile failed to launch. During post flight weapon inspection ordnance crew discovered damaged membrane on forward section of container. Membrane was torn cleanly from the twelve o'clock to the six o'clock position. No other damage was noted.

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 15996

(Continued)

ACTION TAKEN:

26SEP00: NAWC Pt. Mugu reported information supplied by the deficiency indicates this was a hang fire missile. The problem was entered for tracking purposes only. This is to remain open.

02OCT01: NAWC Pt. Mugu has determined that an investigation is not warranted at this time. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	:	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	02OCT01

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
	:	HMLA-169 MESSAGE 201100ZSEP00	PROBLEM REPORT
	:	NAWC PT MUGU/311000E MESSAGE 262129ZSEP00	INTERIM RESPONSE
	:	NAWC PT MUGU/311000E MESSAGE 020229ZOCT01	REPLY/CLOSING

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16174

CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	GUIDED MISSILE, TOW	13060893	1410	01-216-3172	PB92

EI CNTRL NO:

PROB BRIEF : WATER/HUMIDITY EXPOSURE/INTRUSION

PROBLEM : Moisture or water intrusion occurred to missile during inclement
DESCRIPTION weather.

PREVENTIVE : None at this time.
ACTION

CORRECTIVE : There is no corrective action for this problem as all missiles under
ACTION NALC's PB91, 4W73 and PV15 currently in Condition Code "N" and
NAR'd, will be demil'd upon return from the fleet.

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	NAWC PT MUGU/311200E MESSAGE 121329ZJAN98	AWCAP CLOSURE

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	MALS-26	CODR	M09167-01-0013	28SEP01	CLOSED
	USS GUAM (LPH-9)	CODR	V07178-96-0001	15MAY96	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : MALS-26 CODR M09167-01-0013 28SEP01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	S/N: 487254 LOT: HAQ95G306-501			
FAILED PART:	13426588	1410	01-379-8260	PU16
NOMEN:	TOW MISSILE			

DESCRIPTION:

HMLA-269 reported that while missile was being inspected, excessive corrosion around the nose seal, aft seal and umbilical connector, was noticed. Missile was placed in Condition Code "J" and stored in accordance with proper procedures. Missile is being temporarily stored at MCAS New River Weapons Department awaiting disposition instructions.

ACTION TAKEN:

01OCT01: NAWC Pt. Mugu entered the problem for tracking purposes only. Request MALS-26 re-stencil the container with the correct missile serial number. Place missile in Condition Code "F" and ship to Anniston Army Depot for repair. This is closing action.

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16174

(Continued)

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	:	NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 01OCT01

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
	:	MALS-26 MESSAGE 281142ZSEP01	PROBLEM REPORT
	:	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	:	010729ZOCT01	

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16510

CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	TOW MISSILE	13426588	1410	01-379-8260	PU16

EI CNTRL NO:

PROB BRIEF : MISSILE DID NOT CAPTURE AND PREMATURE DETONATION OCCURRED

PROBLEM : Missile launched and had premature airburst.
DESCRIPTION

PREVENTIVE : None.
ACTION

CORRECTIVE : Airburst possibly caused by debris inside launch container which
ACTION essentially causes a short in the crush switch or safe arming device that functions the warhead. the difficulty in determining the root cause is because the debris inside may not break loose until the shock of missile launch dislodges it.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	HMLA-267	CODR	M09159-01-0013	18JUN01	CLOSED
	HMLA-267	CODR	M09159-01-0006	09MAR01	CLOSED
	HMLA-269	CODR	M08998-00-0060	02OCT00	CLOSED
	MCP FALLBROOK	CODR	M21326-00-0001	30AUG00	CLOSED
	MAWTS-1	EMR	M55167-99-0024	16OCT99	CLOSED *
	HMLA-269	CODR	M08998-99-0050	06SEP99	CLOSED *
	HMM-165	EMR	M09343-99-0012	11JUN99	CLOSED *
	HMLA-167	CODR	M09898-99-0003	11MAR99	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION :	HMLA-267	CODR	M09159-01-0013	18JUN01	CLOSED
----------	----------	------	----------------	---------	--------

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	S/N: 483451			
FAILED PART:	13426588	1410	01-379-8260	PU16
NOMEN:	TOW MISSILE			

DESCRIPTION:

HMLA 267 reported the launch was normal with missile crossing telescopic sight unit. After 50 meters flight missile dove steeply toward surface. Detonation was noted by aircrew. Missile failed to capture. AFC-340 was not installed.

ACTION TAKEN:

27JUN01: NAWC Pt. Mugu suspects the problem was due to AFC-340 not being installed on the aircraft AH-1W. This problem was entered for tracking purposes only. This is closing action.

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16510

(Continued)

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	27JUN01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-267 MESSAGE 181300ZJUN01	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	270029ZJUN01	

ACTION :	HMLA-267	CODR	M09159-01-0006	09MAR01	CLOSED
-----------------	-----------------	-------------	-----------------------	----------------	---------------

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			
	S/N: 483445			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

HMLA-267 reported missile failed to capture; suspected loss of power to Tow/Hellfire Control Display system resulted in missile failing to capture.

ACTION TAKEN:

15MAR01: NAWC Pt. Mugu analyzed deficiency and firing report. Suspect that for some reason the Tow/Hellfire Control Display Panel shut down prior to or during launch causing the missile to not capture. This problem has been entered for tracking purposes only. This is closing action.

ACTION :	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	15MAR01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-267 MESSAGE 091301ZMAR01	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	150229ZMAR01	

ACTION :	HMLA-269	CODR	M08998-00-0060	02OCT00	CLOSED
-----------------	-----------------	-------------	-----------------------	----------------	---------------

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: 484873			
	LOT: HAQ95E306-402			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 16510

(Continued)

DESCRIPTION:

HMLA-269 reported missile experienced a possible premature detonation. Review of aircraft video reveals missile entering telescopic sight unit field of view low, with observation of missile flight motor exhaust ports and abnormally bright launch motor exhaust. Approximately .75 seconds after launch, missile appears to detonate within telescopic sight unit.

ACTION TAKEN:

23OCT00: NAWC Pt. Mugu reported that the missile experienced a possible premature detonation. This problem has been entered for tracking purposes only. This is to remain open for time being.

02OCT01: NAWC Pt. Mugu has determined that an investigation is not warranted at this time. This is closing action.

04OCT01: NAWC Pt. Mugu sent out a corrected copy of message to provide more information as to why the missile experienced possible premature detonation. The Army and Navy engineering investigations have determined that TOW airbursts are caused by a short in the warhead crush switch or safe and arming device. This short detonates the warhead following acceleration of the flight motor. Detonation occurs between 1.2 to 2.4 seconds into flight. The source of the short is minute debris created during the manufacturing process. This debris remains imbedded in the warhead material, and shifts during missile flight acceleration, causing the short. There is no post-production corrective action for this manufacturing process defect. Historical data indicates the potential exists for one airburst every sixty-five tow missile firings. Navy safe separation analysis using the Advanced Safe Escape Program (ASEP), determined that the time of the airburst following launch allows sufficient clearance between the missile and the aircraft. Analysis was performed for hover and forward flight up to 170 knots and resulted in meeting safe separation criteria.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 02OCT01
REFERENCES	:	IDENTIFICATION		REFERENCE BRIEF	
		HMLA-269 MESSAGE 020922ZOCT00		PROBLEM REPORT	
		NAWC PT MUGU/311000E MESSAGE 230029ZOCT00		INTERIM RESPONSE	
		NAWC PT MUGU/311000E MESSAGE 020129ZOCT01		REPLY/CLOSING (CORRECTED)	

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16510

(Continued)

ACTION : MCP FALLBROOK CODR M21326-00-0001 30AUG00 CLOSED |

END ITEM : PART/DOC. NO. FSC NIIN NALC |

S/N: 484000

LOT: HAQ95D306-401

FAILED PART: 13426588 1410 01-379-8260 PU16

NOMEN: TOW MISSILE

DESCRIPTION:

Pilot reported missile malfunction. The cause is unknown, possible shorting of the crush switch or safe and arming device by debris in the missile. However, explosion may have occurred prior to completion of flight motor burn. |

ACTION TAKEN:

19SEP00: NAWC Pt. Mugu reported that the problem of premature detonation, early burst, is under investigation by Marine Corps Program Department Fallbrook, CA and NAWC China Lake, CA. This problem was entered for tracking purposes only. This is closing action. |

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS

SUMMARY NAWC PT MUGU/311000E REVIEW DISCREPANCY COMPLETE 19SEP00 |

REFERENCES : IDENTIFICATION REFERENCE BRIEF

MCP FALLBROOK MESSAGE 301155ZAUG00 PROBLEM REPORT (EMAIL MSG) |

NAWC PT MUGU/311000E MESSAGE REPLY/CLOSING |

190929ZSEP00

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16846

CLOSED

EI CNTRL NO:

PROB BRIEF : MISSILE DETONATION OCCURRED SHORT OF TARGET

PROBLEM : Aircrew reported missile detonated short of target.
DESCRIPTION

PREVENTIVE : There is not preventive action at this time.
ACTION

CORRECTIVE : There is no corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	HMLA-269	CODR	M08998-00-0057	01SEP00	CLOSED
	HMLA-269	CODR	M08998-00-0051	14AUG00	CLOSED *

* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : HMLA-269 CODR M08998-00-0057 01SEP00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	S/N: 482843			
	LOT: HAQ95B306-306			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

HMLA-269 reported missile appeared to be low in field of view then began to climb, appeared to capture, with track steady throughout first 1500 meters of flight before impacting the ground approximately 700 meters short of the target.

ACTION TAKEN:

12SEP00: NAWC Pt. Mugu reported that after review of the deficiency and analysis of the missile firing report, this does not appear to be a missile failure. The missile deficiency mentions a slight system failure and that the boresight failed. This would imply that the optics in the telescopic sight unit were apparently not boresighted properly and would cause the missile to fly a little low. This is closing action.

ACTION	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	12SEP00

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16846

(Continued)

REFERENCES : IDENTIFICATION

HMLA-269 MESSAGE 010911ZSEP00
NAWC PT MUGU/311000E MESSAGE
120829ZSEP00

REFERENCE BRIEF

PROBLEM REPORT
REPLY/CLOSING

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 16870

CLOSED

EI CNTRL NO:

PROB BRIEF : DAMAGED MEMBRANE DUE TO ROCKET LAUNCHED ON SAME SIDE AS TOW MISSILE

PROBLEM : Inboard missile had damage to forward shield membrane exposing
DESCRIPTION missile.

PREVENTIVE : There is no preventative action at this time.
ACTION

CORRECTIVE : There is no corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	HMLA-169	CODR	M09202-01-0012	01OCT01	CLOSED
	NAF EL CENTRO	CODR	N60042-01-0001	19JUL01	CLOSED
	HMM-162	CODR	M09492-00-0032	27SEP00	CLOSED

ACTION : HMLA-169 CODR M09202-01-0012 01OCT01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	S/N: 482899			
	LOT: HAQ95B306-306			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

HMLA-169 reported aircraft release and control checks and missile loading was performed with no discrepancies. Aircraft failed TOW bit during flight. The system was reset and failed again. Post flight systems checks revealed no discrepancies. Turned missile into MALS-36 ordnance awaiting disposition.

ACTION TAKEN:

04OCT01: NAWC Pt. Mugu entered this problem for tracking purposes only. From the information provided, it appears that this is an aircraft problem and not a missile problem. This is closing action.

ACTION	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
SUMMARY	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE 04OCT01

REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	HMLA-169 MESSAGE 010455ZOCT01	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	040129ZOCT01	

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16870

(Continued)

ACTION : NAF EL CENTRO CODR N60042-01-0001 19JUL01 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC
S/N: 484007, 484240
FAILED PART: 13426588 1410 01-379-8260 PU16
NOMEN: TOW MISSILE

DESCRIPTION:

NAF EL CENTRO reported that the flexible seals for two missiles were cut from the nine o'clock position to the three o'clock position and a straight cut from the six o'clock position to the center of the flexible seal about three inches in length. Wires were exposed, also.

ACTION TAKEN:

08AUG01: NAWC Pt. Mugu entered this problem for tracking purposes only and requested that missiles be put into Condition Code "F" and shipped to the Anniston Army Depot for repair. This is closing action.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS
SUMMARY NAWC PT MUGU/311000E REVIEW DISCREPANCY COMPLETE 06AUG01

REFERENCES : IDENTIFICATION REFERENCE BRIEF
NAF EL CENTRO MESSAGE 191700ZJUL01 PROBLEM REPORT
NAWC PT MUGU/311000E MESSAGE REPLY/CLOSING
080229ZAUG01

ACTION : HMM-162 CODR M09492-00-0032 27SEP00 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC
S/N: 484864
FAILED PART: 13426588 1410 01-379-8260 PU16
NOMEN: TOW MISSILE

DESCRIPTION:

Upon recovery ground crew discovered inboard missile had damage to forward shield membrane exposing missile. Pilot stated there was no attempt to fire. Post mission testing of aircraft revealed no discrepancies.

ACTION TAKEN:

02OCT00: NAWC Pt. Mugu requested missile be placed in Condition Code "F" and shipped to Anniston Army Depot for repair. This problem has been entered for tracking purposes only. This is closing action.

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16870

(Continued)

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	:	NAWC PT MUGU/311000E	REVIEW DISCREPANCY	COMPLETE	02OCT00

REFERENCES	:	IDENTIFICATION	REFERENCE BRIEF
	:	HMM-162 MESSAGE 271043ZSEP00	PROBLEM REPORT
	:	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	:	020229ZOCT00	

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 16876

CLOSED

EI CNTRL NO:

PROB BRIEF : MISSILE FAILED TO CAPTURE WITH AWC 340 INSTALLED

PROBLEM : The aircraft had AFC-340 installed and missile failed to capture.
DESCRIPTION

PREVENTIVE : None.
ACTION

CORRECTIVE : There is no corrective action at this time.
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	MAWTS-1	CODR	M55167-00-0031	23OCT00	CLOSED
	HMM-264	CODR	M09374-00-0033	17OCT00	CLOSED
	MAWTS-1	CODR/EMR	M55167-00-0025	16OCT00	CLOSED

ACTION : MAWTS-1 CODR M55167-00-0031 23OCT00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: 484538			
	LOT: HAQ95B306-402			
FAILED PART:	13426588	1410	01-379-8260	PU16
	NOMEN: TOW MISSILE			

DESCRIPTION:

Prior to launch pilot has prelaunch constraints in head up display and gunner had no malfunctions or abnormal indications in TOW/Hellfire control display panel. At launch, missile failed to capture and drifted left of aircraft. Missile never entered field of view. Only smoke of motor visible in telescopic sight unit. Missile never responded to inputs and continued to drift left of aircraft until impact with ground, approximately 300 meters from aircraft.

ACTION TAKEN:

25OCT00: NAWC Pt. Mugu reported that this problem remains open pending decision on engineering investigation. AFC-340 was incorporated on AH-1W aircraft. This problem has been entered for tracking purposes only. This is to remain open.

02OCT01: NAWC Pt. Mugu has determined that an investigation is not warranted at this time. This is closing action.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY		NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 02OCT01

30-NOV-01

**TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

PROBLEM NO: 16876

(Continued)

REFERENCES :	IDENTIFICATION MAWTS-1 MESSAGE 231200ZOCT00 NAWC PT MUGU/311000E MESSAGE 250629ZOCT00 NAWC PT MUGU/311000E MESSAGE 020429ZOCT01	REFERENCE BRIEF PROBLEM REPORT INTERIM RESPONSE REPLY/CLOSING
---------------------	---	---

ACTION : HMM-264 CODR M09374-00-0033 17OCT00 CLOSED

END ITEM :	PART/DOC. NO. S/N: 482763 LOT: HAQ95E306-306	FSC NIIN NALC
FAILED PART:	13426588 NOMEN: TOW MISSILE	1410 01-379-8260 PU16

DESCRIPTION:
Pilot reported that missile went straight out of tube, never observed in telescopic sight unit, veered right and down into the water. Switchology verified as correct, post mission testing of aircraft revealed no discrepancies.

ACTION TAKEN:
19OCT00: NAWC Pt. Mugu reported after analyzing the firing report, it was found that the missile failed to capture. This problem has been entered for tracking purposes only. This is closing action.

ACTION SUMMARY	ACTIVITY/CODE NAWC PT MUGU/311000E REVIEW DISCREPANCY	ASSIGNMENT	DUE DATE STATUS COMPLETE 19OCT00
-----------------------	---	-------------------	--

REFERENCES :	IDENTIFICATION HMM-264 MESSAGE 170525ZOCT00 NAWC PT MUGU/311000E MESSAGE 190129ZOCT00	REFERENCE BRIEF PROBLEM REPORT REPLY/CLOSING
---------------------	---	---

ACTION : MAWTS-1 CODR/EMR M55167-00-0025 16OCT00 CLOSED

END ITEM :	PART/DOC. NO. S/N: 482511 LOT: HAQ95B306-305	FSC NIIN NALC
FAILED PART:	13426588 NOMEN: TOW MISSILE	1410 01-379-8260 PU16

DESCRIPTION:
Pilot reported that missile captured and crossed telescopic sight unit line of sight three times. Missile tracked normally and at approximately 1100 meters from aircraft, missile detonated. Post

30-NOV-01

TOW MISSILES AND ARMAMENT SUBSYSTEMS ACTIVE
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16876

(Continued)

launch BIT checks all passed. Post flight inspection revealed no damage to aircraft. Post flight system check was good.

ACTION TAKEN:

19OCT00: NAWC Pt. Mugu reported missile experienced premature detonation. The problem has been entered for tracking purposes only. This is to remain open.

02OCT01: NAWC Pt. Mugu has determined that an investigation was not warranted at this time. This is closing action.

04OCT01: NAWC Pt. Mugu sent out a corrected copy of message to provide more information as to why the missile experienced possible premature detonation. Army and Navy engineering investigations have determined that TOW airbursts are caused by a short in the warhead crush switch or safe and arming device. This short detonates the warhead following acceleration of the flight motor. Detonation occurs between 1.2 to 2.4 seconds into flight. The source of the short is minute debris created during the manufacturing process. This debris remains imbedded in the warhead material, and shifts during missile flight acceleration, causing the short. There is no post-production corrective action for this manufacturing process defect. Historical data indicates the potential exists for one airburst every sixty-five tow missile firings. Navy safe separation analysis using the Advanced Safe Escape Program (ASEP), determined that the time of the airburst following launch allows sufficient clearance between the missile and the aircraft. Analysis was performed for hover and forward flight up to 170 kts and resulted in meeting safe separation criteria.

ACTION	:	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
SUMMARY	:	NAWC PT MUGU/311000E	REVIEW DISCREPANCY		COMPLETE 02OCT01
REFERENCES	:	IDENTIFICATION		REFERENCE BRIEF	
		MAWTS-1 MESSAGE 161500ZOCT00		PROBLEM REPORT	
		NAWC PT MUGU/311000E MESSAGE 190029ZOCT00		INTERIM RESPONSE	
		NAWC PT MUGU/311000E MESSAGE 020329ZOCT01		REPLY/CLOSING (CORRECTED)	